

REMARKS

Claims 49, 51-54, 56-59, 61-64, 66-79, 81-84 and 86-170 are currently pending with claims 49, 54, 59, 64, 69, 74, 79, 84, 89, 94, 100, 111, 122, 127, 137, 147 and 152 being independent. Claims 1-48 were previously canceled. By this amendment, claims 50, 55, 60, 65, 80 and 85 have been canceled; claims 49, 54, 59, 64, 79 and 84 have been amended to include the subject matter of canceled claims 50, 55, 60, 65, 80 and 85; and claims 94, 100, 111, 122, 127 and 137 have been amended to recite "wherein light emitted from the light emitting element is outputted to the second substrate side." This feature is directed to an embodiment mode 3 of Fig. 3, for example, where light (image) is viewed by a user through the substrate 102. This is also explained in the specification at pages 24 to 25. In addition, claims 111, 112, 137 and 138 have been amended to delete the recitation "organic." Finally, claims 147-170 have been added. No new matter has been introduced.

Applicant acknowledges with appreciation the Examiner's allowance of claims 69-78.

Claims 49-52, 54-57, 59-62, and 64-67 were rejected as being unpatentable over Ebisawa (U.S. Patent No. 6,284,342) in view of Al-Dahoudi ("Transparent Conducting, Anti-Static and Anti-Static-Anti-Glare Coatings on Plastic Substrates"; *Thin Solid Films* 392; pp. 299-304; 2001), and claims 53, 58, 63 and 58 were rejected as being unpatentable over Ebisawa in view of Al-Dahoudi and Barnes (U.S. Patent No. 5,783,464).

Al-Dahoudi's July 30, 2001 publication date and July 2, 2001 on-line date are both later than the February 1, 2001 Japanese priority date of the present application. Applicants are submitting a verified English translation of Japanese application JP 2001-026176, the Japanese priority application, to perfect the priority claim. In particular, Appendix A includes a complete certified English translation of Japanese application JP 2001-026176 including 41 pages of specification, claims and abstract. The claimed subject matter finds support in the Japanese priority application, with the primary features being shown at least in Embodiment Mode 3 at paragraphs [104]-[108] and Figs. 3 and 7. Accordingly, Al-Dahoudi does not qualify as prior art, and the rejections should be withdrawn.

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Applicants also note that claims 79-146, which were properly submitted in the preliminary amendment of April 17, 2006, were not considered in the action. These claims, as well as new claims 147-170, are believed to be allowable.

Applicant submits that all claims are in condition for allowance.

The extra claims fees in the amount of \$1320 (\$900 for 18 extra claims and \$420 for 2 extra independent claims) are being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,


Date: April 17, 2008



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
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Transparent conducting, anti-static and anti-static-anti-glare coatings on plastic substrates


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Abstract

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Abstract

$\text{In}_2\text{O}_3\text{:Sn}$ (ITO) sols made of crystalline nanoparticles, fully redispersable in an ethanol solution containing hydrolyzed organosilanes, have been developed to deposit conducting transparent and anti-glare coatings on plastic (PMMA, polycarbonate) and glass substrates by spin, dip and spray coating processes. The coatings are cured by UV irradiation and/or by a low temperature heat treatment ($T=130^\circ\text{C}$) in air or reducing atmosphere. The electrical, optical, textural and mechanical properties of the coatings are reported. A stable sheet resistance as low as $5\text{ k}\Omega_{\square}$, was obtained with a single 500-nm thick transparent layer. Anti-glare-anti-static coatings exhibiting a $40\text{-k}\Omega_{\square}$ sheet resistance, a gloss of 60–70 GU, a clarity of 75–90% and an optical resolution $>8\text{ lines/mm}$ were obtained by a room temperature spraying process. The abrasion resistance of both coatings is in agreement with DIN 58196-H25-class 1.

Author Keywords: Sol-gel; Coatings; Conductivity; Indium tin oxide; Plastic substrate

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Abstract

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